*** File Copy Only: Do Not Submit Paper Form to EPA ***

Form Status: Certified and Sent to USEPA Validation Status: Passed with Possible Errors 1 2 3 4 5 Additional Info (IMPORTANT: Type or print; read instructions before completing form) Form Approved OMB Number: 2070-0093 Approval Expires: 01/31/2008 Page 1 of 5 TRI Facility ID Number **EPA** FORM R 98134LSKNC32006 United States Section 313 of the Emergency Planning and Community Right-to-know Act Environmental of 1986, Toxic-Chemical, Category or Generic Name Protection also known as Title III of the Superfund Amendments and Reauthorization Agency Chromium Compounds (except for chromite ore mined in the Transvaal Reg 1. TRI Data Processing Center WHERE TO SEND P.O. Box 10163 2. APPROPRIATE STATE OFFICE COMPLETED FORMS: Fairfax, VA 22038
*** File Copy Only: Do Not Submit Paper Form to EPA *** (See instructions in Appendix F) This section only applies if you are revising or Revision (enter up to two code(s)) Withdrawal (enter up to two code(s)) withdrawing a previously submitted form, otherwise leave blank: [][] Important: See Instructions to determine when "Not Applicable (NA)" boxes should be checked. Part I. FACILITY IDENTIFICATION INFORMATION SECTION 1. REPORTING YEAR: 2006 SECTION 2. TRADE SECRET INFORMATION 2.1 Are you claiming the toxic chemical identified on page 2 2.2 Is this copy trade secret? [] Sanitized [] [] Yes (Answer question 2.2; Attach substantiation Unsanitized (Answer only if "YES" [X] NO (Do not answer 2.2; Go to Section 3) SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.) I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report. Name and official title of owner/operator or senior management official: Signature: Date Signed: File Copy Only: Do Not Submit Paper Form to EPA File Copy Only: Do Not Submit Paper Form to EPA XX/XX/XXXX SECTION 4. FACILITY IDENTIFICATION 4.1 TRI Facility ID Number 98134LSKNC32006 Facility or Establishment Name Facility or Establishment Name or Mailing Address(if different from street address) ALASKAN COPPER WORKS ALASKAN COPPER WORKS Mailing Address 3200 6TH AVE S PO BOX 3546 City/County/State/Zip Code City/State/Zip Code Country (Non-US) SEATTLE / King / WA / 98134 **SEATTLE /WA /98124** This report contains information for: 4.2 a. [X] An Entire facility b. [] Part of a facility c. [] A Federal facility d.[]GOCO (Important: check a or b; check c or d if applicable) Email Address Telephone Number (include area code) 4.3 Technical Contact name JAMES BROWN (b) (6) 2066235800 Telephone Number (include area code) 4.4 Public Contact name JAMES BROWN 2066235800 a. 332996 45 NAICS Code(s) (6 digits) đ. f. (Primary) Dun and Bradstreet 4.6 Number(s) (9 digits) a. 009255571 b.

NA []

NA[]

5.2 Parent Company's Dun & Bradstreet Number
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SECTION 5. PARENT COMPANY INFORMATION

Name of Parent Company

009255571
Printed using TRIMEweb

ALASKAN COPPER WORKS

	EPA FORM R											TRI Facility ID Number								
													98134	ILSKNC32	2006					
		P	ART I	п. сн					NFO	RMATIO	N		Toxic Chemical, Category or Generic Name							
													Chromiu	m Compo mined in	unds (exce the Trans	-	omite ore			
SECTIO	CCTION 1. TOXIC CHEMICAL IDENTITY (Important DO NOT complete this section if you completed Section 1. TOXIC CHEMICAL IDENTITY)												Section 2 below.)							
	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Ent												ter category	code if repor	ting a chemi	cal category	.)			
1.1	N090																			
,,	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) 1.2																			
1.2	Chromium Compounds (except for chromite ore mined in the Transvaal Reg																			
Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes". Generic Name must be structurally													ucturally des	criptive).						
1.5	NA																			
1.4	Distribution of Each Member of the Dioxin and Dioxin-like Cor (If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number percentages and the total should equal 100%. If you do not have speciation											between 0.0	1 and 100. D		hould be rep	orted in				
	1 2 3 4 5 6 7 8 9 10 11 12										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	13	14	15	16	17				
NA[]									P	******		***************************************								
SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)																				
2.1	Generic Chemical Name Provided by Su									Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.)										
	2.1								NA											
SECTIO (Importa					OF THE	3 TOXIC	CHEM	IICAL A	AT THE	FACILITY										
3.1		Manufa	acture th	e toxic	chemica	l:	3.2	T	F	rocess the to	xic chemical	l:	3.3 Otherwise use the toxic chemical:							
	a	. [] Pro	duce b.	[] Impo	rt															
If produce or import: c. [] For on-site use/processing d. [] For sale/distribution e. [] As a byproduct f. [] As an impurity									c. [As a formu X] As an a d.[] Rep e.[] As a	a reactant lation compo rticle compoi packaging n impurity	nent	a. [] As a chemical processing aid b. [] As a manufacturing aid c. [] Ancillary or other use							
	N 4. MA	XIMU	M AMO	UNT O	F THE 7	roxic (СНЕМІ	CALO	NSITE A	AT ANY TIN	Æ DURING	THE CAL	ENDAR YEA	AR .						
4.1			***************************************							***	ode from inst			····	10 mm o 10 mm o 10 p.p. p					
SECTIO	N 5.QU	ANTITY	Y OF TH	HE TOX	JC CHE	MICAL	ENTE	RING E	ACH E	NVIRONME	NTAL MED	IUM ONSI	ΓE							
											pounds/year* or estimate**		B. Basis o (enter	f Estimate code)	C. 4	C. % From Stormwater				
5.1	Fugitive air emis	e or non ssions	-point			N	NA[]			В			O	<u> </u>						
5.2	Stack of air emis					N	₹A[]			A			0							
5.3			eceiving nter one																	
water bodies (enter one name per box) Stream or Water Body Name								200000000000000000000000000000000000000												

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NA

5.3.1

*For Dioxin and Dioxin-like Compounds, report in grams/year
**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
98134LSKNC32006

Toxic Chemical, Category or Generic Name

Chromium Compounds (except for chromite ore

l l	PART II. CHEMICAL -	SPECIFI	C INFORMATION (CO	NTINUED) loxic Chemical, Category or Generic Name									
				Chromium Compounds (except for chromite ore mined in the Transvaal Reg									
SECTIO	ECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)												
		NA	A. Total Release (pounds/	year*) (enter range code**	or estimate)	B. Basis of Estimate (enter code)							
5.4.1	Underground Injection onsite to Class I wells	[X]											
5.4.2	Underground Injection onsite to Class II-V wells	[X]				er stander statister z. z. ze ze statistikoli i i i i i i i i i i i i i i i i i i							
5.5	Disposal to land onsite												
5.5.1.A	RCRA subtitle C landfills	[X]											
5.5.1.B	Other landfills	[X]			-								
5.5.2	Land treatment/application farming	[X]											
5.5.3A	RCRA Subtitle C surface impoundments	[X]											
5.5.3B	Other surface impoundments	[X]											
5.5.4	Other disposal	[X]											
SECTIO	ON 6. TRANSFERS OF THE TOXIC	C CHEMICA	L IN WASTES TO OFF-SITE!	LOCATIONS									
6.1 DIS	CHARGES TO PUBLICLY OWNE	D TREATM	ENT WORKS (POTWs)		***************************************								
	otal Quantity Transferred to POTWs	and Basis of	Estimate										
6.1.A.1 (enter ra	Total Transfers (pounds/year*) ange code** or estimate)	· makaninganan mangangangangangangangangangangan			6.1.A.2 Basis of (enter co								
		A		M									
	6.1.1 POTW Name	WEST PO	DINT TREATMENT PLAN	4T									
	POTW Address	1400 UTA	.H AVE										

County

WA

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State

SEATTLE

*For Dioxin and Dioxin-like Compounds, report in grams/year **Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

Zip

King

98199

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number

98134LSKNC32006

Toxic Chemical, Category or Generic Name

Chromium Compounds (except for chromite ore mined in the Transvaal Reg

ECTION	6.2 TRANSFER	S TO OTHER O	FF-SITE	LOCATI	ONS									
	6.2.1 0	Off-Site EPA Iden	tification	Number	WAD991281767									
	*****	Off-Site I	ocation l	Vame	BURLINGTON ENVIRONMENTAL INC									
		Off-Si	te Addre	ss	20245 77TH AVENUE SOUTH									
City	KE	NT	State	WA	ng		Zip 980321362 Country (Non-US)							
	Is loca	ation under contro	l of repor	ting facil	[] Yes [X] No									
		ensfers (pounds/ye e code** or estim						ype of Waste Treatment/ cling/Energy Recovery (e						
	1	1 . B			1	. C				1 . M41				
		2 . B			2	. C				2 . M62				
	6.2.2 0	Off-Site EPA Iden	tification	Number	RCRA ID No.)					ORD981766124				
		Off-Site I	ocation l	Vame				S	AFETY.	KLEEN SYSTEMS	(714801)			
		Off-S	ite Addre	SS				1	6540 SO	UTHEAST 130TH S	TREET			
City	CLACKAMAS State OR County Clac							amas Zip 970158944 Country (Non-US)						
	Is loca	ation under contro	of repor	ting facil	ity or parent comp	oany?	[] Yes [X] No							
	A. Total Tra (enter rang	ansfers (pounds/ye e code** or estim	ear*) ate)			is of Estimate nter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)							
	1	1 . A			1	.0	1 . M26							
77.77	6.2.3 (Off-Site EPA Iden	tification	Number	RCRA ID No.)		AZD980735500							
2002-000-00-00-00-00-00-00-00-00-00-00-0		Off-Site I	ocation l	Vame			WORLD RESOURCES CO							
		Off-S	ite Addre	ss			8113 WEST SHERMAN STREET							
City	TOLL	ESON	State	AZ	County	Mari	copa		Zip	853533300	Country (Non-US)			
	Is loc	ation under contro	of repor	ting facil	ity or parent comp	pany?	[] Yes [X] No							
		ensfers (pounds/ye e code** or estim			C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)									
	1 .	4406			1	. C	1 . M24							
			SEC	TION 7A	ONSITE WAST	E TREATMENT	METH	IODS AND	EFFICIEN	NCY				
	[X] Not Ap	plicable (NA) - C	heck here	e if no on	site waste treatme	ent is applied to ar	y wast	te stream co	ntaining th	ne toxic chemical or chem	nical category.			
Was	General ste Stream ster code)			te Treatn	nent Method(s) Se character code(s)]	d. Waste Stream containing the toxic chemical or chemical category. d. Waste Treatment Efficiency Estimate								

*For Dioxin and Dioxin-like Compounds, report in grams/year

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EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number 98134LSKNC32006

Toxic Chemical, Category or Generic Name

Chromium Compounds (except for chromite ore mined in the Transvaal Reg

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

SECTION	N 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES		······································				
		Column Prior Ye (pounds/ye	Column Current Reporti (pounds/ye	ng Year	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)	
8.1							
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA		NA		NA	NA
	Total other on-site disposal or other releases	NA		255		255	255
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA		0		0	0
	Total other off-site disposal or other releases	NA		505		5	5
	Quantity used for energy recovery onsite	NA		NA		NA	NA
	Quantity used for energy recovery offsite	NA		NA		NA	NA
8.4	Quantity recycled onsite	NA		NA		NA	NA
8.5	Quantity recycled offsite	NA	4411			4781	2406
8.6	Quantity treated onsite	NA		NA		NA	NA
8.7	Quantity treated offsite	NA		NA		NA	NA
	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production p	processes (pounds/	year)			NA	
8.9	Production ratio or activity index					NA	
8.10	Did your facility engage in any source re enter "NA" ir	eduction activities a Section 8.10.1 an			reporting	year? If not,	
	Source Reduction Activities [enter code(s)]			Methods	s to Ident	ify Activity (enter	codes)
8.10. 1	W19	handalan ana ana anta mpananana ana ana palapana	T	01	1	Г03	T04
8.10. 2	W29		Т	`01	1		T04
8.10.3	W39	· · · · · · · · · · · · · · · · · · ·	Т	01	, ,	Г03	T04
8.11	If you wish to submit additional optional information on source reduct check "Yes."	ion, recycling, or p	ollution co	ntrol activities,	900 (0.000) (0.00	Yes	s []

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*For Dioxin and Dioxin-like Compounds, report in grams/year

1 2 3 4 5 Additional Info
TRI Facility ID Number
98134LSKNC32006
Toxic Chemical, Category or Generic Name
Chromium Compounds (except for chromite ore mined in the Transvaal Reg

Additional optional information on source reduction, recycling, or pollution control activities.

Based on inventory lusues to WIP 2011						DATA FOR EPA FORM 2011	n.							
3200, 3405 Shops Work in Progress						Phosphorus			Moryodenum	27nc	Alumenum	The		
7304	82,121				321	37				_		_	251,272	
73044	412,434		37,119		4.124		124	#1,543 546		-	_	-	2:51,272	
7316 7216	427 220	672	8,307		4.072	183	122	#0.7Z3			_	-	274,406	
717	34,977		4,549		340	192	10	3,491		_	-	Н	10,163	
Carp	134	31			-		-/-	73		_	-		70	
73194	111,325		10.014		1,110	89	- 72	11.102					00,479	
7321	7.234	1.374					- 5	723			1		4,263	
7347				1	1 0			D			1			
HART 278	36		21				0	4			1		4	
ALLOY 20	,						9							
OTHER MART	1.093	1.026	2.700				0				-	-		
A29CQ3	16	- 3	•			9	°			_		-		
124	900	200	225			9	- 11	97		_		-	343 421	
254 BMO	1,961	2.624	213		180			25		-		-	0.991	
2205 PHCO 523	12,463	1.075	8,000					1,244	-		-	Н	182	
HCO 800	75,463	1,0/4										Н		
PRC2 920												-	o	
MACKEL 200	790	-	420					- 00						
66-10 CUNI	00,330	9,930	87,781	333		.30		6,634				_	980	
70-30 CUN	19,296	2.406	11.042		190	7	Q	1.000					241	
TITANIUM.		0	0			0						Π		
BOST ALUM	2,787	418	2,007	14			. 0	279	<u> </u>	_		-		
NORE ALUM	10.113	1.217	7,220	- 21	191			1.011		_	1 -	Н	147	
OTHER ALVM	777	9	9	778		- 9						н		
C 110 Capper C 260 Street	184			129			_			36		Н		
C 484 Herry Gronze	\$.777			1.300	-		-		_	X323	-	•	- 3	
C 614 Authorn Service	4.000			144							476	т"	12	
C 600 Eventur	336			322	1			10					0	
ilee.	11,304				1,130								10.214	
Zecor Allows	27,637		4.179					1.070	279.27				21,407	
YOMA	1,241,000	220,364	161,001	11,056				118,784		3,572			600 ,500	1,241,440
	Total Pounds	225.3M	181.001			Phosphorus	311	110,194	Moyoomum 11,636				669,520	1.241.449
	(,241,980	220,394	,25,000	,	14,072	530	231		,,,,,,					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Make Amount (2 months supply)	206.966	36,726	20,642	1,863	2,179	•	50	19,006	1,873				115,007	
Ause Affected by All Processing Methods (Approximate														
	1,600	266	218	14	16	•	0	161	16				944	
	To of Total Above	12.74%	12,87%	0.00	1.00%	0.04%	0 03%	9.60%	0.00%				86.32%	99.87%

тс	TAL POUNDS	CHROMIUM	NICKEL	COPPER	MANGANESE	PHOSPHOROUS	SULFUR	SILICON	MOLYBORYUM	ZWC	ALUMINUM	TIM	IRON + TRACE	0.504
AHHUAL TOTAL	1241965	220386	181061	11968	13072	535	331	119194	11838	3579	472	67	699520	CHECK 1241985
2-MONTH SUPPLY (MAX ANOUNT)	208998	36728	29842	1993	2179	89	55	19660	1973	597	79	11	118587	200998
FINAL THRESHOLD (WIR	1241985	220368	161061	11958	13072	535	331	119194	11638	3579	472	67	899530	1241986
		>25,000 LB	> 25,000 LG.	< 25,000 LB	< 25,000 LB					< 25,000 LB	42000LB	C25,000 LB		